P. O. Box 121 — Jacksboro, Tennessee 37757

COMMISSIONERS
ROBERT M. BURDEN, Chairman
JAMES F. WRIGHT, Secretary

RAY GREEN, Treasurer

OFFICE: 562-9776 WATER PLANT: 562-2234 WASTEWATER PLANT: 562-9895

TELEPHONE

June 30, 2016

Robert G. O'Dette, M.S., P.E.
State Biosolids Coordinator
Division of Water Resources
Tennessee Department of Environment and Conservation
William R. Snodgrass Tennessee Tower, 11<sup>th</sup> Floor
312 Rosa L. Parks Avenue
Nashville, TN 37243-1102

RE: Notice of Intent for land application of biosolids

#### Dear Mr. Odette:

These represent the documents that support the Utilities response to the comments you have expressed regarding the NOI application for the Rice Farm site(s).

### Comment #1:

The area designated as "72" is mostly acceptable, but needs further delineation via a detailed map showing all setback IAW our state rules and general permit under Chapter 0400-40-15.

## Response:

Please refer to attachment 1 that contains detailed maps with descriptions of the three (3) fields proposed for use at Rice Farm site #1.

### Comment #2:

Horses were observed in area 72 and special attention must be given to the site restrictions associated with the land application of Class B biosolds (non-EQ biosolids) — please acknowledge this in your response and provide details as to how the site(s) will be managed.

### Response:

Please refer to attachment 2 which contains our Permission for Biosolids Application form that all appliers are required to read and sign. The form addresses site restrictions for Class B biosolids, waterquality setbacks, weather-related restrictions, soil restrictive site conditions, and threatened / endangered species. Appliers are also provided a copy of State Rules 0400-40-15 and 40 CFR Part 503.

#### Comment #3:

With the small amount of biosolids generated and anticipated to be land applied each year, it is not feasible that several hundred acres will be used as the application areas. Based upon your volumes and analytical results, it is estimated that no more than 30-40 acres will be needed to land apply all of your biosolids per year. Therefore, in your response please provide a more detailed breakdown of these large farm sites into smaller sites that will match the actual application areas.

### Response:

Please refer to our response for Concern #1. At the current time the applier only proposes to use a total of approximately 60.1 acres for land application. Our NOI application referenced the entire amount of available acreage at the Rice Farm site(s) to allow for field rotation in the event the applier wished to use a different area. If this comes to pass, our NOI will be updated accordingly and submitted with the pertinent information for each additional field.

#### Comment #4:

Area "62" is not acceptable - too many sinkholes and other features that make it a problematic area.

### Response:

Due to the fact that the applier was not intending to use site #2 (Area "62") at this time. We submitted maps of the entire amount of acreage owned at this location. It appears that there are areas that would be suitable for land application at this location. The matter will be discussed with the applier and if he wishes to pursue the matter, detailed maps for useable acreage will be created and submitted for approval at a later date.

If there are questions regarding the comments or additional information needed, please call Mr. Greg Smith, Sludge Program Coordinator (423) 562-9895.

Cedaloca

Sincerely,

Franklin D. Wallace Executive Secretary

**Enclosures** 



# DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER RESOURCES

William R. Snodgrass - Tennessee Tower 312 Rosa L. Parks Avenue, 11th Floor Nashville, Tennessee 37243-1102 (615) 532-0625

# NOTICE OF INTENT (NOI) for Land Application of Non-Exceptional Quality Biosolids

Gen- Nam	erator Caryville-c	Jacksboro Utilities Comm	nission	Current NPDES No: TN0026263		isting acking No:	
Own	er or Operator: (the p	erson or legal entity which control	s the site's operatio	n)			
	Name of Official Contact Person: (individual responsible for a site)  Franklin D. Wallace			Title or Position: Executive Secretary			
1	Mailing Address:	P.O. Box 121	1 o V Malain Ann Phù (1960 V An Bhàidhlimh ad Chlumh Ann Ann Ann Ann Ann Ann Ann Ann Ann An	City: Jacksboro		State: TN	Zip: 37757
	Phone: ( ) 423-562-9776						
	Name of Local Contact Person: (if appropriate, write "same as #1")  Earl G. Wilson  Title or Position:  Pretreatment Coordinator						
2	Site Address: (this 450 Queener	may or may not be the same as stro Road	eet address)	Site City: Caryville	AN ESSA SERVICE ESSACRATE	State: TN	<sup>Zip:</sup> 37714
	Phone: ( ) 423-5	562-9895		E-mail: gregory_cjuc@	_		
		Write in th	e box (to the right)	or circle the number (above) to ind	licate where	e to send correspo	ondence: 1
All non-exceptional biosolids land application sites that have been approved by the division prior to the effective date of this permit will be covered under this permit upon receipt of the signed certification statement, completed NOI and a copy of site approval letter(s).							
A.	A. OPERATIONAL INFORMATION:  Estimated annual amount of biosolids generated (dry weight basis)  Estimated annual amount of biosolids to be land applied (dry weight basis) 100 (tons)						
B.	BIOSOLIDS 7	TREATMENT PROCESS	S: Please prov	ide a description of the bi	osolids t	reatment proc	
_	_	land applied (use a separate		* *			
Aer	Aerobic digestion after required detention time. Then dewatered by belt press.						
C. CHEMICAL ANALYSIS: Indicate which contaminant standard(s) the biosolids meet:  Table 1 Ceiling Contaminant Concentrations:  Submit analytical results to demonstrate eligibility for and compliance with the quality criteria specified in the General Permit.  Submit PCB and TCLP analytical results that are less five years old.  9 metals & NH3 & TCLP & PCB(s). See enclosed reports.							
	N. M. C. C. C.						
D.	PATHOGEN REDUCTION LEVEL ACHIEVED: Indicate alternative used to achieve the pathogen reduction. For Class A, Alternatives 5 and 6; for Class B, Alternatives 2 and 3, list the specific Process to Further Reduce Pathogens (PFRP) or Process to Significantly Reduce Pathogens (PSRP).  Class A: Alternative 1 Alternative 2 Alternative 3 Alternative 4 Alternative 5 Alternative 6 (List PFRP) (List Eq. PFRP)						
	Class B:	■ Alternative 1	Alterna	tive 2	Altern	ative 3	
		iled description of the path opriate, that demonstrate pa		process. Attach laborator	<b>list Eq.</b> l ry analyt		rocess monitoring
Aerobic digestion. Fecal results. See enclosed reports.							
	u.goodol	334,133416. 360	5110,00001	<b>Sports</b> .			

# NOTICE OF INTENT (NOI) for Land Application of Non-Exceptional Quality Biosolids

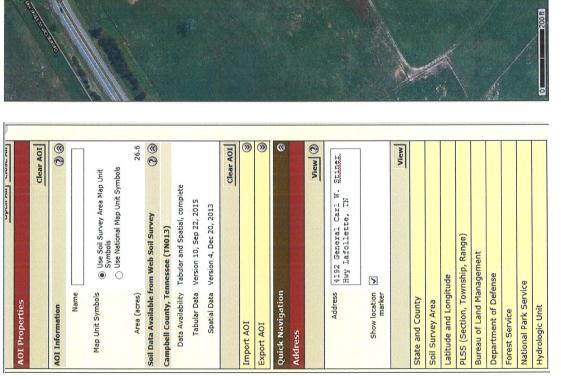
E.	VECTOR ATTI	RACTION RED	UCTION LEVEL ACHIEVED	Indicate the option used	to achieve the v	ector attraction			
	reduction.								
	Option 1		ion 2 Dption 3	Option 4					
	Option 5		ion 6 🔲 Option 7	Option 8					
	If one of the ve	ector attraction r	eduction Options 1 - 5 is selec	ted, do the biosolids n	neet Class A pa	thogen reduction			
	requirements price	or to or at the sam	e time as meeting the vector attra	ction reduction requirem	ients?				
	■ Yes	□ No							
			ne vector attraction reduction trea			cal and/or process			
	monitoring result	s, as appropriate.	that demonstrate vector attraction	reduction is being achie	eved:				
Aero	obic digestion.	Sour test at	tached						
	obio aigootioii.	Oour toot at							
F.	If one of the west	on attraction radu	ction Options 1 - 8 above was not	manfannad Indianta har	v tha vaatan attea	ation raduation			
r.			art of the land application process		v the vector attra	etion reduction			
	Option 9 (Sul			s. Option 10 (Incorporatio	m)				
	Chuon 3 (20)	osuriace injectio	)n)	puon 10 (meorporano	11)				
Nat	t applicable								
INU	t applicable								
G.	SAMPLING PL	AN: Include a c	letailed copy of the biosolids san	ipling plan as specified	in the instruction	ns. The sampling			
			cols for contaminants, pathogen						
	F	a amalana baara	The second secon						
San	npling plan is	attached.							
				· · · · · · · · · · · · · · · · · · ·					
Н.			s): Include a list of land applied						
	Attach a detailed	map showing app	propriate buffers in accordance w	ith section 3.2.1 (add add	ditional pages if i	necessary)			
	Area Number	Area (acres)	Application Rate (tons/acre) p	er section 3.2.2	Latitude	Longitude			
					(decimal)	(decimal)			
	Rice Farm #1	240 Total			36.253611	84.012250			
	Field #1	26.6	One (1) dry ton p						
	Field #2	16.1	One (1) dry ton p	er acre					
	Field #3	17.4	One (1) dry ton p	er acre					
	Rice Farm #2	304 Total			36.264011	83.555555			
I.	CERTIFICATIO	ON: I certify, un	nder penalty of law, that contam	inant concentrations in	the biosolids, pa	thogen reduction,			
	vector attraction r	eduction, and oth	er quality criteria of the biosolid	s stated in the regulation	s have been met	or, if appropriate,			
	will be met prior	to land application	on of biosolids. I further certify t	hat other information in	this document as	nd all attachments			
			n or supervision in accordance v						
			the information submitted. Bas						
			, or those directly responsible fo						
			ief, is true, accurate and comple						
	biosolids described above is eligible for coverage under TDEC's General Permit for the Land Application of Biosolids. I am								
	aware that there are significant penalties for submitting false information, including possibility of fines and imprisonment for								
	knowing violations. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under								
	penalty of perjury.								
			Name: Franklin D. Wallace Executive Secretary						
			ace	- Executiv	e Secretar	·V			
			ace	Title: Executiv	e Secretar	ТУ			
	Name: Frank		ace -) ( ) , OOs =	Title: Executiv	e Secretar	<u>Y</u>			
			ace Helloco	Title: Executiv	e Secretar	- У			
	Name: Frank	lin D Wall	Milleo	Title: Executiv					

<u>NOTE</u>: In evaluating NOI forms, TDEC may request additional information to complete its review to determine the eligibility for coverage under TDEC's General Permit.

Submit the original completed and signed form to <u>Water Permits(atn.gov</u> or:
Biosolids NOI Processing - Division of Water Resources
William R. Snodgrass - Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor
Nashville, TN 37243-1102

# ATTACHMENT #1

Detailed maps referencing available acreage.

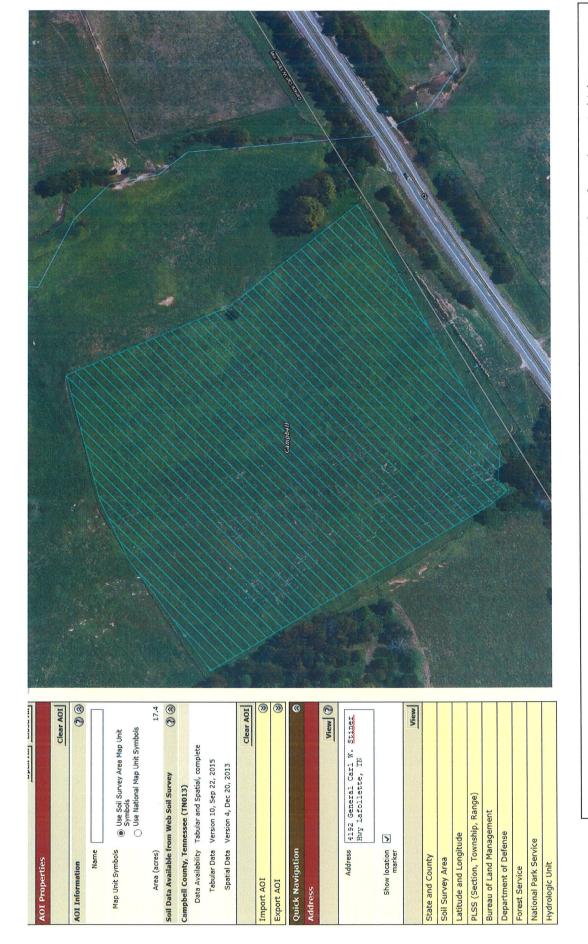




Rice Farm Field #1: Approximate acreage available is 26.6. This field is located approximately 519 feet from the main highway. It borders Frontier Rd and Claws road and is approximately within 50 feet of both. The barn and home located next to the field are at a distance of greater than 100 feet. The applier is aware of the setbacks and will comply with the requirements.



Rice Farm Field #2: Approximate acreage available is 16.1. This field is located approximately 160 feet from the main highway. There is a barn located on this field. The applier is aware of the setbacks and will comply with the requirements.



According to the soil survey website a creek borders the field but it is approximately greater than 230 feet at its closest point and Rice Farm Field #3: Approximate acreage available is 17.4. This field is located approximately 150 feet from the main highway. greater than 400 feet at its furthest point. The applier is aware of the setbacks and will comply with the requirements.

# ATTACHMENT #2

Example of Permission for Biosolids Application form.

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# **Permission for Biosolids Application**

I	do hereby give permission to	Caryville-Jacksboro Utilities
Commission to apply Class-B	Biosolids to fields approved by	Tennessee Department of
Environment and Conservation	. I further agree to do the actual	field spreading at rates not
exceeding the CJUC recommer	ndations and to follow all site re	strictions provided by CJUC
contained herein below. State	and Federal Regulators may hav	e access to the site without
restrictions at all times.		

### Site Restrictions for Class B Biosolids

If the biosolids are Class B with respect to pathogens, the permittee shall comply with all the site restrictions listed below:

- a) Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.
- b) Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain on the land surface for four months or longer prior to incorporation into the soil.
- c) Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than four months prior to incorporation into the soil.
- d) Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.
- e) Animals shall not be grazed on the land for 30 days after application of biosolids.
- f) Turf grown on land where biosolids are applied shall not be harvested for one year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the State Biosolids Coordinator.

- g) Public access to land with a high potential for public exposure shall be restricted for one year after application of biosolids.
- h) Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.

### **Water-Quality Setbacks**

The land application of non-EQ biosolids shall be conducted in a manner that will not cause violation of any receiving water quality standard from discharges of surface runoff from the land application sites. Non-EQ biosolids shall not be land applied unless all of the following setbacks are met:

- a) 100 feet or more from surface waters of the State of Tennessee which are positioned down gradient of the application site.
- b) 33 feet or more from surface waters of the State of Tennessee which are positioned up gradient for the application site.
- c) 100 feet from all wells.
- d) 100 feet from all water supply reservoirs.
- e) 100 feet from active sinkholes.

### Weather-related Restrictions.

Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk solids enters a wetland or other waters of State of Tennessee, except as provided in a permit issued pursuant to  $\S$  402 or 404 of the Clean Water Act.

### **Soil Restrictive Site Conditions**

Biosolids shall not be applied to any site area with standing surface water or if the annual high groundwater level is known or suspected to reach the surface of the land application site.

Where boisolids will be land applied on land subject to temporary flooding, the soils in these landscape positions, at a minimum, must be well drained, must be undisturbed (natural), must not be a wetland, and must not contain any drains or artificially constructed conduits to Waters of the State of Tennessee.

Liquid biosolids shall not be applied to slopes exceeding 8%, except where they will be injected or incorporated into the soil, and then slopes up to 15% are acceptable. Biosolids with a percent solids of 17% or greater can be applied on slopes up to 15%.

# **Threatened and Endangered Species**

The biosolids or the application of the biosolids shall not cause or contribute to the harm of a threatened or endangered species listed under section 4 of the Endangered Species Act or result in the destruction or adverse modification of critical habitat of a threatened or endangered species after application.

Signed:	
Date:	
Address:	
Phone:	